

ABSTRACT

A method and apparatus for processing data packets including generating an enqueue command specifying a queue descriptor associated with a new buffer. The queue descriptor is part of a cache of queue descriptors each having a head pointer pointing to a first buffer in a queue of buffers, and a tail pointer pointing to a last buffer in the queue. The first buffer having a buffer pointer pointing to next buffer in the queue. The buffer pointer associated with the last buffer and the tail pointer is set to point to the new buffer.

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